Singolo
Imballi

Single Pack NLE13MNDX 220-240V 50Hz CSCR

Codice Imballo Singolo: **195B4833**

Posizione	Titolo	Codice	Quantità
1	Compressor NLE13MNDX	105H7302	1
2	Start equipment NLE	117U8201	1
3	Starting capacitor (80µF 260V)	117U5353	1
4	Run Capacitor (10µF 450V, 6.3mm)	117-7166	1
5	Run capacitor bracket	117-0314	1
6	Cover NLE	117U1038	1
7	Cord relief	103N1007	1
8	Screw for bracket M4x8mm	117-0301	1
9	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NLE13MNDX

Sales code:
105H7302

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**11.80 kg / 26.01lbs**
Displacement	**12.60 cm3 / 0.77cu.in**
Compressors on pallet	**80**

General – Configurations With NLE13MNDX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

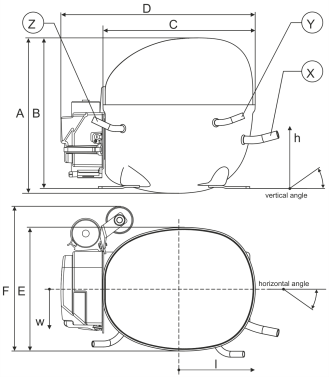
Oil type	**POE**	Winding resistance main	**7.5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.9 Ohm**
Oil quantity	**300 / 10.14fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

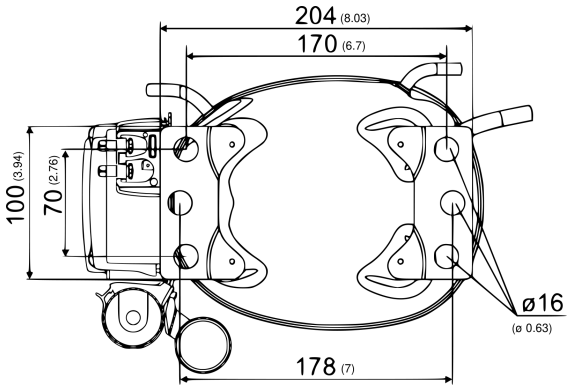
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**262mm / 10.31in**
E Width	**166mm / 6.54in**

Find 3D Model here



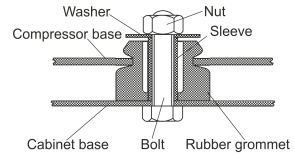
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74 / -4.29/3.66/2.91in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

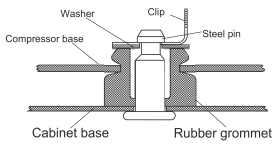


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	–
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Model
NLE13MNDX Configuration 1

Sales code:
105H7302

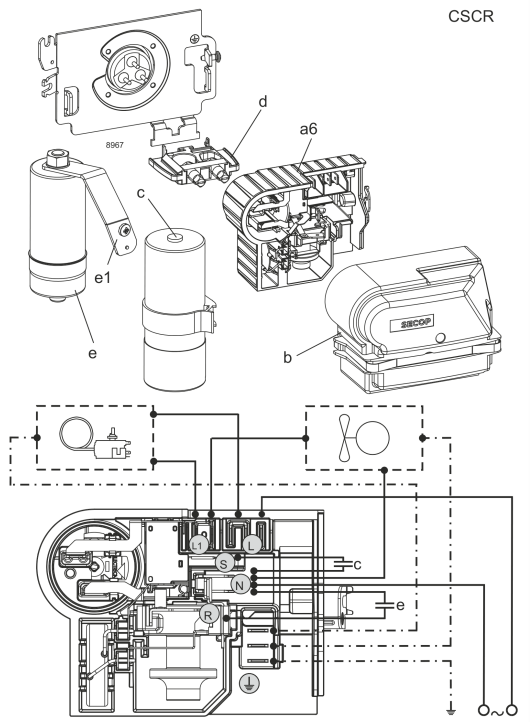
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.7 A**
RLA (rated load amps / 1s/ U(N))	**2.2 A**
Cut in current (U(N))	**16.7 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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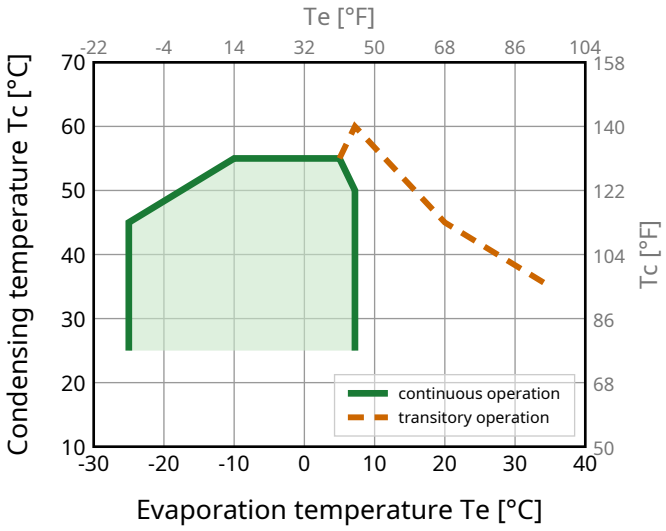
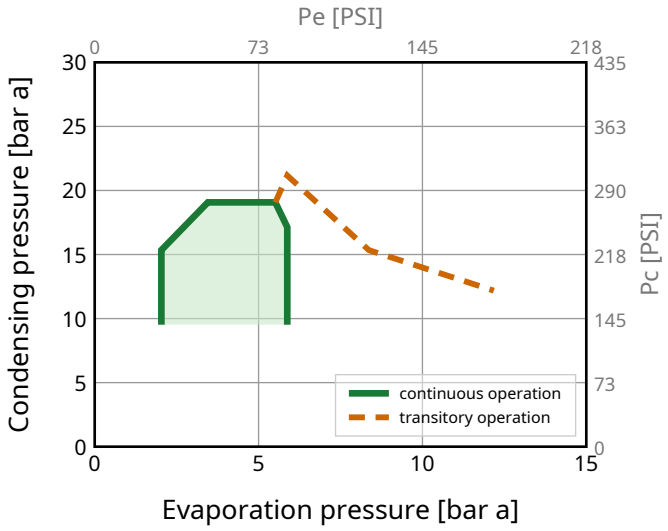
Components
a6 NL starter kit 117U8201
c start capacitor (80µF) 117U5353
e run cap (10µF, 6.3mm,c.length 280mm) 117-7166
b cover terminal board + clamp 117U1038
e1 retaining clamp 117-0314
screw M4x8mm 117-0301
d cord relief 103N1007

Operation Pressure Range





Model
NLE13MNDX Configuration 1

Sales code:
105H7302

Standard Conditions

R290, 220 V/50 Hz, CSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1136**	3878	977	**2.09**	7.14	543	2.55	13.01	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**906**	3092	779	**1.75**	5.99	516	2.42	11.52	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1017**	3469	874	**2.19**	7.49	463	2.19	12.51	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1074**	3663	923	**2.12**	7.23	507	2.38	13.96	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1057**	3606	909	**2.28**	7.79	463	2.19	12.14	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**570**	1944	490	**1.60**	5.47	355	1.73	6.46	**opt MBP 2**

Performance Tables

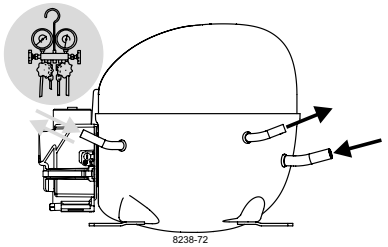
R290, 220 V/50 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-25	-13	**570**	1944	490	**1.60**	5.47	355	1.73	6.46
-20	-4	**710**	2423	611	**1.82**	6.20	391	1.88	8.08
-15	5	**872**	2976	750	**2.04**	6.96	428	2.03	9.96
-10	14	**1057**	3606	909	**2.28**	7.79	463	2.19	12.14
-5	23	**1266**	4319	1089	**2.56**	8.72	495	2.33	14.62
0	32	**1500**	5118	1290	**2.87**	9.81	522	2.45	17.44
5	41	**1761**	6008	1514	**3.25**	11.10	541	2.54	20.64
7.2	45	**1884**	6429	1620	**3.45**	11.76	547	2.56	22.17

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-25	-13	**484**	1652	416	**1.30**	4.44	372	1.80	6.07
-20	-4	**605**	2066	521	**1.45**	4.93	419	2.00	7.62
-15	5	**746**	2544	641	**1.59**	5.44	468	2.21	9.43
-10	14	**906**	3092	779	**1.75**	5.99	516	2.42	11.52
-5	23	**1088**	3713	936	**1.93**	6.60	563	2.63	13.93
0	32	**1293**	4412	1112	**2.14**	7.29	605	2.82	16.67
5	41	**1522**	5192	1309	**2.38**	8.10	641	2.99	19.80
7.2	45	**1630**	5563	1402	**2.49**	8.51	654	3.05	21.30



NLE Plus Compressors

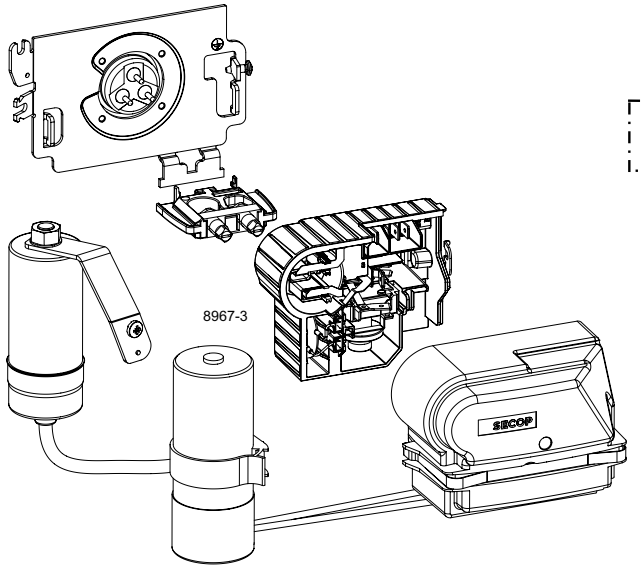
Optimized Electrical CSCR System

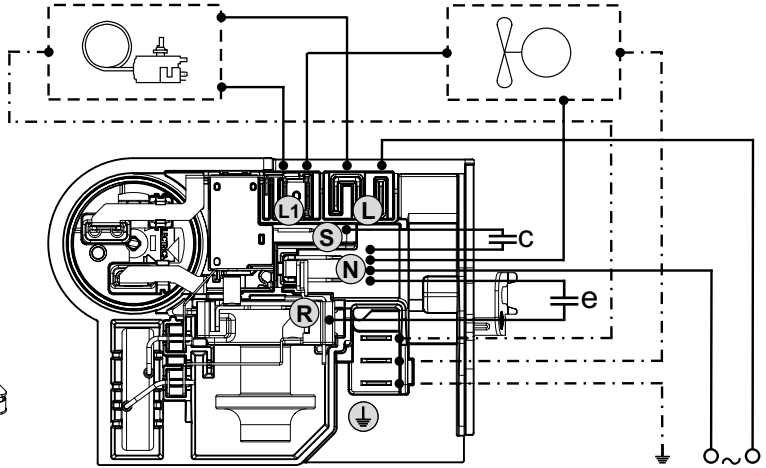
SECOP

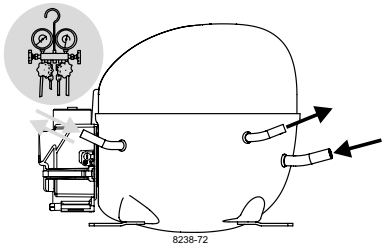
Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

CSCR







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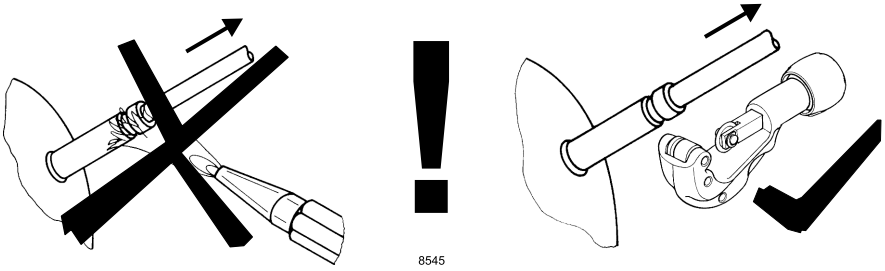
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**